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Zeiss Infinity-Corrected EC Plan Neofluar® Objectives

[[Specification Table](#) | [Helpful Literature](#) | [Product Matrix](#)]



- Excellent UV-NIR Performance
- Long Working Distance
- High NA for Improved Throughput and Resolution

Featuring Zeiss' unique ICS-Optics™ (Infinity Color-Corrected System) technique, these objectives achieve outstanding color correction throughout their entire wavelength range of 340-1000nm. The revolutionary design corrects for lateral chromatic aberration (LCA) with a single spherical element in the tube lens, relieving the objective completely from lateral color aberration correction and reducing the required number of elements in both the tube lens and objective. The reduced number of elements creates higher throughput and better contrast images, all in a smaller, lighter package than comparable infinity-corrected objectives. Each objective is designed for a 164.5mm tube lens focal length and features a 45mm parfocal length and standard RMS threading.

In order to achieve the extraordinary performance capabilities, the spacing between the objective lens and tube lens must be held to a relatively tight tolerance. Accessory tube lens requires 110mm or 130mm of optical path length spacing between objective and tube lens shoulders (including tube lens thickness). Because the objectives are infinity-corrected, filters, beamsplitters, and other accessories can be mounted between the objective and tube lens, further enhancing the objectives' capabilities.

Specification Table

Magnification	2.5X	5X	10X
Numerical Aperture, NA	0.075	0.16	0.30
Working Distance, WD	9.5mm	18.5mm	5.2mm
Focal Length	65.8mm	32.9mm	16.5mm
Cover Glass Thickness	0.17mm	0.17mm	0.17mm
Wavelength Range	340 - 1,000nm	340 - 1,000nm	340 - 1,000nm
Resolving Power	3.7µm	1.8µm	0.9µm
Depth of Field	62.4µm	15.6µm	3.9µm
Max Field Diameter	25.0mm	25.0mm	25.0mm
Field of View			
 Eyepiece, 25 Dia. Field	10.0mm	5.0mm	2.5mm
 Eyepiece, 18 Dia. Field	7.2mm	3.6mm	1.8mm
 2/3" CCD Camera	3.52mm H x 2.64mm V	1.76mm H x 1.32mm V	0.88mm H x 0.66mm V
 1/2" CCD Camera	2.56mm H x 1.92mm V	1.28mm H x 0.96mm V	0.64mm H x 0.48mm V
Objective Thread	RMS (0.8" x 36 TPI)	RMS (0.8" x 36 TPI)	RMS (0.8" x 36 TPI)
Weight	156g	139g	92g

Magnification	20X LD	40X LD	63X LD
Numerical Aperture, NA	0.40	0.60	0.75
Working Distance, WD	8.4 - 7.4mm	3.3 - 2.5mm	2.2 - 1.2mm
Focal Length	8.2mm	4.1mm	2.6mm
Cover Glass Thickness	0 - 1.5mm	0 - 1.5mm	0 - 1.5mm
Wavelength Range	340 - 1,000nm	340 - 1,000nm	340 - 1,000nm
Resolving Power	0.7µm	0.5µm	0.4µm
Depth of Field	1.8µm	0.7µm	0.4µm
Max Field Diameter	25.0mm	25.0mm	25.0mm
Field of View			
 Eyepiece, 25 Dia. Field	1.25mm	0.625mm	0.40mm
 Eyepiece, 18 Dia. Field	0.9mm	0.45mm	0.29mm
 2/3" CCD Camera	0.44mm H x 0.33mm V	0.22mm H x 0.17mm V	0.14mm H x 0.10mm V
 1/2" CCD Camera	0.32mm H x 0.24mm V	0.16mm H x 0.12mm V	0.10mm H x 0.08mm V
Objective Thread	RMS (0.8" x 36 TPI)	RMS (0.8" x 36 TPI)	RMS (0.8" x 36 TPI)
Weight	163g	233g	226g

<u>Tube Lens Specifications</u>	
Focal Length	164.5mm
Design Wavelength	340-1000nm
Image Formation Magnification	1X
Image Field of View	25mm
Entrance Pupil Diameter	11mm
Objective Position Tolerance	±8mm
Diameter x Length	
 110mm Distance* (#58-395)	38.5mm x 6.5mm
 130mm Distance* (#58-452)	40mm x 12.8mm
Mounting Thread	
 110mm Distance* (#58-395)	M36 x 0.5mm
 130mm Distance* (#58-452)	M36 x 0.75mm

*Distance from lens shoulder to image = 162.07mm

Products

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• ZEISS EC PLAN NEOFLUAR® OBJ 2.5X 	NT58-389	\$550.00	in stock	BUY
• ZEISS EC PLAN NEOFLUAR® OBJ 5X 	NT58-390	\$775.00	in stock	BUY
• ZEISS EC PLAN NEOFLUAR® OBJ 10X 	NT58-391	\$1,050.00	e-mail	BUY
• ZEISS EC PLAN NEOFLUAR® OBJ 20X LD 	NT58-392	\$2,025.00	e-mail	BUY
• ZEISS EC PLAN NEOFLUAR® OBJ 40X LD 	NT58-393	\$2,578.00	in stock	BUY
• ZEISS EC PLAN NEOFLUAR® OBJ 63X LD 	NT58-394	\$3,542.00	in stock	BUY
• ZEISS TUBE LENS 110MM DISTANCE 	NT58-395	\$166.00	in stock	BUY

• ZEISS TUBE LENS 130MM DISTANCE 	NT58-452	\$166.00		
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